

Table 5-11
Non-Tidal Wetland Areas Alternative 4 Cost Estimate
Institutional Controls, Hotspot Removal (HQ = 3) and Monitoring
Investigation Area H1
Mare Island, Vallejo, California

	Quantity	Unit	Unit Price	Cost	Source/Subtotal	COMMENTS
Soil Removal (Hot Spots + Green Sand Area)						
Mobilization	1	LS	\$ 8,400	\$ 8,400		
Excavation (Labor)	220	HR	\$ 720	\$ 158,400		Crew rate based on 8 equipment operators/site workers
Excavation (Equipment)	220	HR	\$ 395	\$ 86,900		Equipment rate based on 2 dump trucks (30-ton), excavator (CAT 330), compactor (CAT 815F), water truck and fuel
Soil Testing	1	LS	\$ 16,800	\$ 16,800		
Estimate based on monthly effort for hot spot soil removal Assumes 16,500 cubic yards of soil removed per month				\$ 270,500		Cost per month of Hot Spot excavating \$270,500 per month/16,500 yards per month = \$16.40 per yard
Costs for Alternatives are based on \$16.40 per cubic yard	2,825	CY	\$ 16.40		\$ 46,000	Cost for Alternative 2
Backfilling Excavations						
Mobilization	1	LS	\$ 4,400	\$ 4,400		
Backfilling (Labor)	220	HR	\$ 475	\$ 104,500		Crew rate based on 4 equipment operators/site workers
Backfilling (Equipment)	220	HR	\$ 230	\$ 50,600		Equipment rate based on scraper (CAT 623), excavator (CAT 330), water truck and fuel
General Fill	22,000	CY	\$ 5.60	\$ 123,200		
Seed/Plant Collecting/Installation	2	AC	\$ 7,150	\$ 14,300		Pro-rated from actual costs incurred for H1 wetland mitigation
Estimate based on monthly effort for backfilling hot spots Assumes 22,000 cubic yards of soil backfilled per month				\$ 297,000		Cost per month of Hot Spot backfilling \$297,000 per month/22,000 yards per month = \$13.50 per yard
Costs for Alternatives are based on \$13.50 per cubic yard	3,240	CY	\$ 13.50		\$ 44,000	Cost for Alternative 4
Install 3 GW monitoring wells	3	EA	\$ 4,369	\$ 13,107		SWBZ GW wells, monitoring costs included in Alternatives 2A/2B
Confirmation Samples	55	EA	\$ 500	\$ 27,500		
					\$ 41,000	
Sub Total					\$ 131,000	
Engineering (4%) Cost					\$ 5,000	
Field Administration (7%) Cost					\$ 9,000	
Cost Sub Total					\$ 145,000	
25% contingency					\$ 36,000	
Report Total					\$ 181,000	